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Adults with perinatally acquired HIV: 25 years and beyond

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No data on outcomes in adult life with perinatal HIV (age 25+ years); end of neurocognitive development, bone accrual

12,201 people living with HIV aged 25-34 years in care in the UK (PHE 2016), tiny proportion perinatally infected

We examined the outcomes for perinatally infected adults (25+ years) at our centre.
Method

- Retrospective database and electronic record review for all those living with PaHIV ever registered at the 900 Clinic
- Selected birth cohort prior to November 1992
- Assessing retention, mortality, morbidity, ART and viral load (VL) suppression, resistance, and fertility.
Results

60 PaHIV adults born pre November 1992 ever registered

- 11 (18%) subsequently transferred care
- 1 (1.6%) lost to follow up (age 27, VL <20, 2016)
- 3 (5%) died
  - aged 19, 20 of advanced HIV with poor ART adherence
  - aged 27 MAI/IRIS
Current Cohort

- 45 adults in current follow up
  - 26 (58%) female
  - median age 27 years, range (25-33)
  - ethnicity: Black African 37 (82%), Mixed Race 3 (7%), Caucasian 5 (11%)
  - 4 (9%) perinatal hepatitis co-infection, HBV (2) HBV/HDV (1) HCV (1) [Indira Malik P390]
- All 45 received ART
- 87% VL <200 c/ml
  - median CD4 count 676 cells/ul (IQR 363).
- 13% VL >200c/ml
  - median CD4 count 296 cells/ul (r 52-539).
Anti-retroviral therapy

- 38% first line ART
  - 5 NNRTI, 12 integrase
- 42% second line ART
- 20% third line ART
  - Boosted PI plus integrase with NNRTI and/or NRTI

Second/subsequent line therapy: Resistance data (n=24) single (6) dual (11) triple (2) and four class (1)
Morbidity: AIDS diagnoses

11/45 (24.4%) have ever had an AIDS diagnosis; 4 in adult care

Total AIDS diagnoses

- TB: 7
- MAI: 2
- CNS infection: 2
- Recurrent bacterial infection: 1
- CMV pneumonitis: 1
- PCP: 1
- HIV wasting: 1
- Lymphoma: 1
- Kaposi Sarcoma: 1
Morbidity

- 7/45 ART toxicity
  - lipodystrophy (3) non-cirrhotic portal hypertension (1), facial hyperpigmentation (1), Stevens Johnson’s syndrome (2)

- Bone health: 60% vitamin D deficiency treated
  - 5/11 with bone density data have osteopenia. [BONDY STUDY]
- 18/45 (40%) significant mental health problems
  - 12 (26%) anxiety and/or depression
  - 4 alcohol/drug dependency
  - 2 recurrent psychosis; 1 with autism, 1 onset in early adolescence
Fertility

- 9/45 (20%) 8 women, have 17 uninfected children.
  - Age range 8 weeks-12 years
- 3/26 (11%) female infertility: Jhai Teh [P305]
  - Primary amenorrhea (2) secondary to hypogonadotrophic hypogonadism, primary ovarian failure
  - Tubal disease (1) IVF twins

- FAITH study: cross sectional assessment of male and female fertility with PaHIV
Conclusion

- Over 25’s with perinatal HIV do very well
- High rates of mental health problems
- Need for MDT approach to support through adolescent period

Cohort viral load trajectory in age-time scale

Viral load (c/ml)

Age (years)
Patients and staff of the Jefferiss wing and 900 clinic